Please amend page 26, line 1 as follows:

~~Claims~~ **What is claimed is:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1) (Original) A method for the production of an aromatic fluorine-labelled compound comprising fluoridation of an iodonium salt with a fluoride ion source characterised in that the reaction mixture contains a free radical trap.

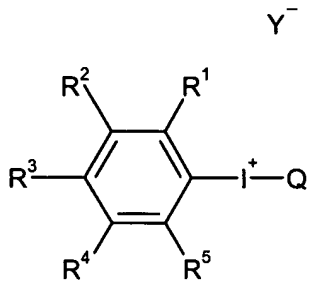
2) (Original) The method of claim 1 wherein the free radical trap is selected from 2,2,6,6-Tetramethylpiperidine-N-Oxide, 1,2-diphenylethylene, ascobate, para-amino benzoic acid, α-tocopherol, hydroquinone, di-t-butyl phenol, ß-carotene and gentisic acid.

3) (Currently amended) The method of ~~either of claims 1 or 2~~ claim 1 wherein the free radical trap is 2,2,6,6-Tetramethylpiperidine-N-Oxide or 1,2-diphenylethylene.

4) (Currently amended) The method of ~~any of claims 1-3~~ claim 1 wherein the fluoride ion source is selected from potassium fluoride, caesium fluoride and tetraalkylammonium fluoride.

5) (Original) The method of claim 4 wherein the fluoride ion source is potassium fluoride and Kryptofix™ is used to activate the fluoride ion.

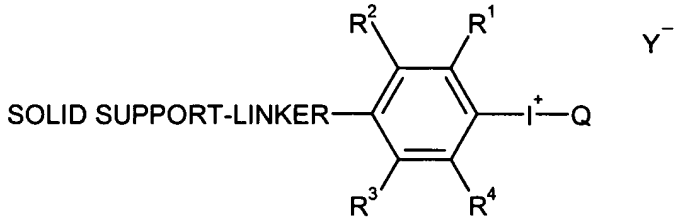
6) (Currently amended) The method of ~~any of claims 1-5~~ claim 1 wherein the iodonium salt is of Formula I:



(I)

wherein:
Q is a precursor of the fluorine-labelled compound ;
$R^1$-$R^5$ are independently selected from hydrogen, nitro, cyano, halogen, $C_{1-10}$ hydroxyalkyl, $C_{2-10}$ carboxyalkyl, $C_{1-10}$ alkyl, $C_{2-10}$ alkoxyalkyl, $C_{1-10}$ hydroxyalkyl, $C_{1-10}$ aminoalkyl, $C_{1-10}$ haloalkyl, $C_{6-14}$ aryl, $C_{3-12}$ heteroaryl, $C_{3-20}$ alkylaryl, $C_{5-12}$ arylene, $C_{2-10}$ alkenyl, $C_{2-10}$ alkynyl, $C_{1-10}$ acyl, $C_{7-10}$ aroyl, $C_{2-10}$ carboalkoxy, $C_{2-10}$ carbamoyl, $C_{2-10}$ carbamyl, or $C_{1-10}$ alkysulphinyl, or protected versions of any of these groups; or alternatively forms a four- to six-membered ring together with the R group to which it is adjacent, or protected versions thereof; and,
$Y^-$ is an anion selected from triflate, nonaflate, mesylate and hexaflate.

7) (Currently amended) The method of ~~any of claims 1-5~~ claim 1 wherein the iodonium salt is solid support-bound as in Formula II:



(II)

wherein:
Q is a precursor of the fluorine-labelled compound; and,
$R^1$-$R^4$ and $Y^-$ are ~~as defined for Formula I of claim 6~~ independently selected from hydrogen, nitro, cyano, halogen, $C_{1-10}$ hydroxyalkyl, $C_{2-10}$ carboxyalkyl, $C_{1-10}$ alkyl, $C_{2-10}$ alkoxyalkyl, $C_{1-10}$ hydroxyalkyl, $C_{1-10}$ aminoalkyl, $C_{1-10}$ haloalkyl, $C_{6-14}$ aryl, $C_{3-12}$ heteroaryl, $C_{3-20}$ alkylaryl, $C_{5-12}$ arylene, $C_{2-10}$ alkenyl, $C_{2-10}$ alkynyl, $C_{1-10}$ acyl, $C_{7-10}$ aroyl, $C_{2-10}$ carboalkoxy, $C_{2-10}$ carbamoyl, $C_{2-10}$ carbamyl, or $C_{1-10}$ alkysulphinyl, or protected versions of any of these groups; or alternatively forms a four- to six-membered ring together with the R group to which it is adjacent, or protected versions thereof; and,
$Y^-$ is an anion selected from triflate, nonaflate, mesylate and hexaflate.

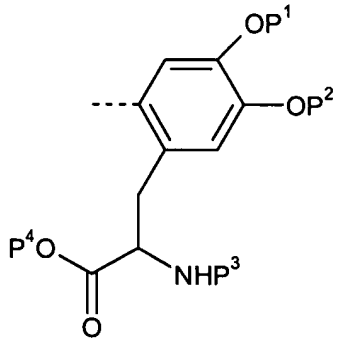
8) (Currently amended) The method of ~~either of claims 6 or 7~~ claim 6 wherein Q is an aryl group optionally substituted by 1 to 5 substituents independently selected from

nitro, cyano, halogen, $C_{1-10}$ hydroxyalkyl, $C_{2-10}$ carboxyalkyl, $C_{1-10}$ alkyl, $C_{2-10}$ alkoxyalkyl, $C_{1-10}$ hydroxyalkyl, $C_{1-10}$ aminoalkyl, $C_{1-10}$ haloalkyl, $C_{6-14}$ aryl, $C_{3-12}$ heteroaryl, $C_{3-20}$ alkylaryl, $C_{5-12}$ arylene, $C_{2-10}$ alkenyl, $C_{2-10}$ alkynyl, $C_{1-10}$ acyl, $C_{7-10}$ aroyl, $C_{2-10}$ carboalkoxy, $C_{2-10}$ carbamoyl, $C_{2-10}$ carbamyl, or $C_{1-10}$ alkysulphinyl, or protected versions of any of these groups; or alternatively forms a four- to six-membered ring together with the R group to which it is adjacent, or protected versions thereof.

9) (Currently amended) The method of ~~any of claims 1-8~~ claim 1 wherein the fluorine-labelled compound is an [$^{18}$F]-labelled compound and the fluoride ion source is a source of $^{18}F^-$.

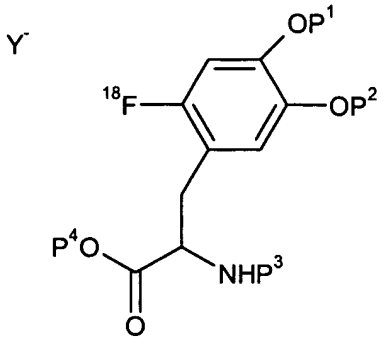
10) (Original) The method of claim 9 wherein the [$^{18}$F]-labelled compound is [$^{18}$F]-FDOPA.

11) (Currently amended) The method of ~~any of claims 6-10~~ claim 6 wherein the precursor is of Formula Ia:




(Ia)

wherein $P^1$, $P^2$, $P^3$, and $P^4$ are each independently hydrogen or a protecting group; said method producing the labelled compound of Formula IIa:

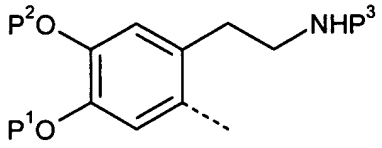



(IIa)

wherein $P^1$, $P^2$, $P^3$, and $P^4$ are each independently hydrogen or a protecting group and $Y^-$ is an anion, preferably trifluoromethylsulphonate (triflate) anion.

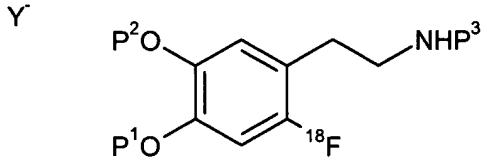
12) (Original) The method of claim 9 wherein the [$^{18}$F]-labelled compound is [$^{18}$F]-dopamine.

13) (Currently amended) The method of ~~any of claims 6-10 and 12~~ claim 6 wherein the precursor is of Formula Ib:




(Ib)

wherein $P^1$, $P^2$, and $P^3$ are each independently hydrogen or a protecting group; said method producing the labelled compound of Formula IIb:

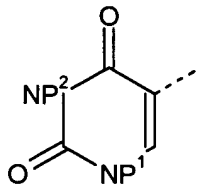



(IIb)

wherein $P^1$, $P^2$, and $P^3$ are each independently hydrogen or a protecting group and $Y^-$ is an anion, preferably trifluoromethylsulphonate (triflate) anion.

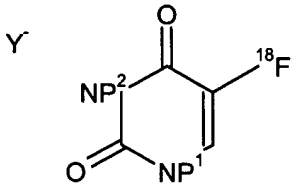
14) (Original) The method of claim 9 wherein the [$^{18}$F]-labelled compound is [$^{18}$F]-uracil.

15) (Currently amended) The method of ~~any of claims 6-10 and 14~~ claim 6 wherein the precursor is of Formula Ic:




Ic

wherein $P^1$ and $P^2$ are each independently hydrogen or a protecting group; said method producing the labelled compound of Formula IIc:




IIc

wherein $P^1$ and $P^2$ are each independently hydrogen or a protecting group and $Y^-$ is an anion, preferably trifluoromethylsulphonate (triflate) anion.

16) (Currently amended) The method of ~~any of claims 9-15~~claim 9, further comprising:

(i) removal of excess $^{18}F^-$, for example by ion-exchange chromatography; and/or

(ii) removal of the protecting groups; and/or

(iii) removal of organic solvent; and/or

(iv) formulation of the resultant compound as an aqueous solution.

17) (Currently amended) An [$^{18}$F]-labelled compound produced by the method of ~~any of claims 1-16~~claim 1.